

M 4.0, 86km ESE of Maneadero, B.C., MX

Origin Time: 2023-07-16 10:37:12 UTC (Sun 03:37:12 local)
 Location: 31.5465° N 115.6394° W Depth: 14.4 km

PAGER Version 8

Created: 1 day, 4 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

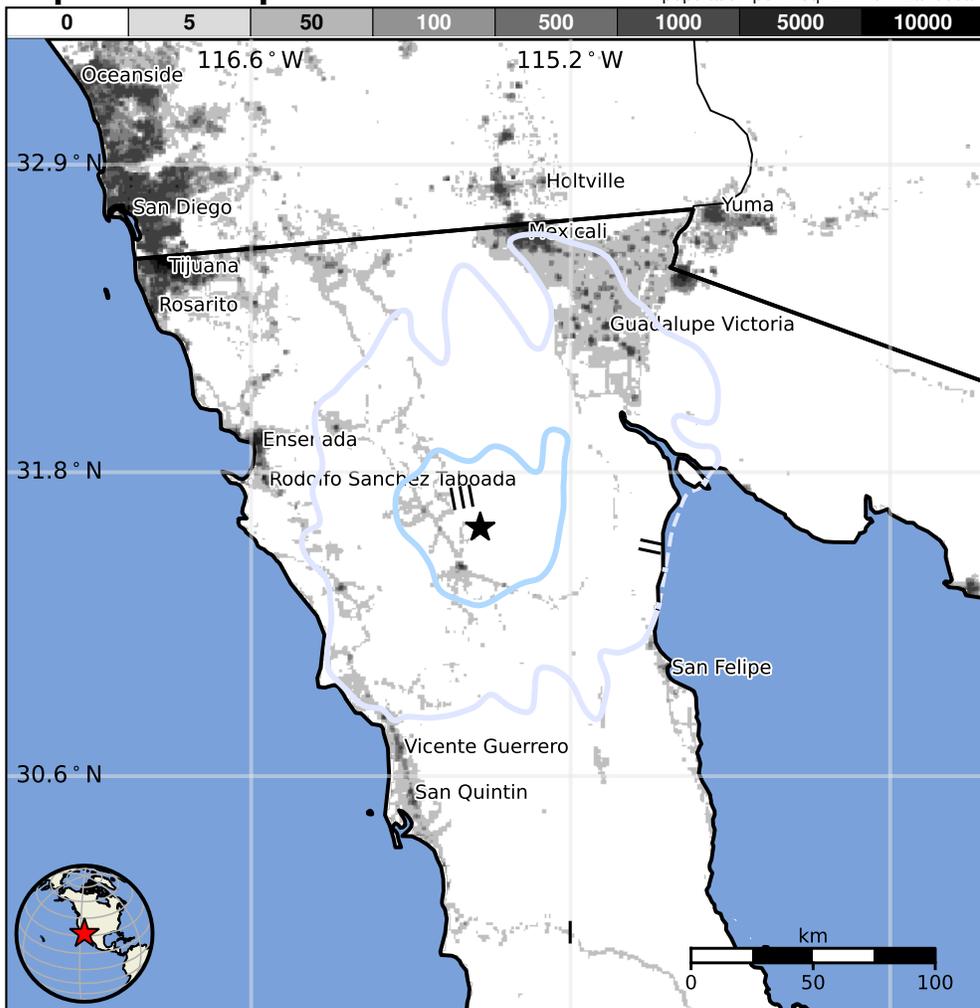
Estimated Economic Losses

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	7,029k	737k	0	0	0	0	0	0	0	
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+	
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme	
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	372	5.6	VI(1,267k)	1
1992-06-28	304	7.3	VIII(23k)	1
1994-01-17	399	6.7	IX(73k)	33

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
II	Fraccionamiento del Valle	1k
II	Ejido Doctor Alberto Oviedo Mota (El Indiviso)	1k
II	Doctor Alberto Oviedo Mota	8k
II	Guadalupe Victoria	18k
II	Delta	6k
II	La Providencia	1k
I	Mexicali	597k
I	Ensenada	257k
I	Tijuana	1,376k
I	San Diego	1,307k
I	Chula Vista	244k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ci39614090#pager>

bold cities appear on map.

(k=x1000)

Event ID: ci39614090